

T-DNA T-DNA

5' GGAGC TCC GAG TGT CCA CAG GAA GGG AAC TAT CAG CTC CTG GCA TCT GTA AGG ATG	11	20	29	38	47	56
CTG TCC ATG CTG AGG ACA ATG ACC AGA CTC TGC TTC CTG TTA TTC TCT TCT GTG	65	74	83	92	101	110
L S M L R T M T R L C F L L F F S V						
GCC ACC AGT GGG TGC AGT GCA GCA GCC TCT TCT CTT GAG ATG CTC TCG AGG	119	128	137	146	155	164
A T S G C S A A A S S L E M L S R						
GAA TTC GAA ACC TGT GCC TTC TCC TTT TCT TCC CCT AGA AGC TGC AAA GAA	173	182	191	200	209	218
E F E T C A F S F S S L P R S C K E						
ATC AAG GAA CGC TGC CAT AGT GCA GGT GAT GGC CTG TAT TTT CTC CGC ACC AAG	227	236	245	254	263	272
I K E R C H S A G D G L Y F L R T K						
AAT GGT GTT GTC TAC CAG ACC TTC TGT GAC ATG ACT TCT GGG GGT GGC GGC TGG	281	290	299	308	317	326
N G V V V Y Q T F C D M T S G G G W						

FIGURE 1A

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FIGURE 1B

T O S E T D - E U S P R A C T

CAG	AAA	TAC	CCA	GTG	AAA	TAC	AGA	TCA	GGG	AAA	TGT	TGG	AAT	GAC	AAT	GGC	GGC	CCA
Q	K	Y	P	V	K	Y	R	S	G	K	C	W	N	D	N	G	P	
659		668			677											695		704
GCC	ATA	CCT	GTG	GTC	TAT	GAC	TTT	GGT	GAT	GCT	AAG	AAG	ACT	GCA	TCT	TAT	TAC	
A	I	P	V	V	Y	D	F	G	D	A	K	K	T	A	S	Y	Y	
713		722			731											749		758
TCA	CCG	TAT	GGT	CAA	CGG	GAA	TTT	GTT	GCA	GGA	TTC	GTT	CAG	TTC	CGG	GTG	TTT	
S	P	Y	G	Q	R	E	F	V	A	G	F	V	Q	F	R	V	F	
767		776			785											803		812
AAT	AAC	GAG	AGA	GCA	GCC	AAC	GCC	CTT	TGT	GCT	GGG	ATA	AAA	GTT	ACT	GGC	TGT	
N	N	E	R	A	A	N	A	L	C	A	G	I	K	V	T	G	C	
821		830			839											857		866
AAC	ACT	GAG	CAT	CAC	TGC	ATC	GGT	GGA	GGA	GGG	TTC	TTC	CCA	CAG	GGC	AAA	CCC	
N	T	E	H	H	C	I	G	G	G	F	F	P	Q	G	K	P		
875		884			893											911		920
CGT	CAG	TGT	GGG	GAC	TTC	TCC	GCC	TTC	GAC	TGG	GAT	GGA	TAT	GGA	ACT	CAC	GTT	
R	Q	C	G	D	F	S	A	F	D	W	D	G	Y	G	T	H	V	

FIGURE 1C

Figure 1D: Sequencing gel showing DNA sequence from 983 to 1091.

	983	992	1001	1010	1019	1028
AAG	AGC	TGC	AGT	CGG	GAG	GCG
---	---	---	---	ATA	ACG	GCT
K	S	C	S	R	E	I
				T	E	A
					A	V
						L
						F
						Y
						R
1037	1046	1055	1064	1073	1082	
TGA	GAC	GCA	GCT	CTG	CGG	TGT
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*						
1091	1100	1109	1118	1127	1136	
TTC	GAG	ACG	GAA	AAA	CTG	GAA
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CAA TTC 3'

FIGURE 1D

1	M L S M L R T M T R L C F L L F F S V A	2921920CD1
1	M - - - - N Q L S F L L F L I A T	g8096221
1	M - - - - T Q L G F L L F I M V A	g3357909
21	T S G C S A A A S S L E M L S R E F E	2921920CD1
14	T R G W S T D E A N T Y - - - F K E W -	g8096221
14	T R G C S A A E E N - - - L D T N R W G	g3357909
41	T C A F S F S S L P R S C K E I K E R C	2921920CD1
30	T C S S - P S L P R S C K E I K D E C	g8096221
31	- - N S F F S S L P R S C K E I K Q E H	g3357909
61	H S A G D G L Y F L R T K N G V V Y Q T	2921920CD1
49	P S A F D G L Y F L R T E N G V I Y Q T	g8096221
49	T K A Q D G L Y F L R T K N G V I Y Q T	g3357909
81	F C D M T S G G G G W T L V A S V H E N	2921920CD1
69	F C D M T S G G G G W T L V A S V H E N	g8096221
69	F C D M T T A G G G W T L V A S V H E N	g3357909

FIGURE 2A

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101	D M H G K C T V G D R W S S Q Q G N K A	2921920CD1
89	D M R G K C T V G D R W S S Q Q G S K A	g8096221
89	N M R G K C T V G D R W S S O O G N R A	q33357909

121	D Y P E G D G N W A N Y N T F G S A E A	2921920CD1
109	D Y P E G D G N W A N Y N T F G S A E A	g8096221
109	D Y P E G D G N W A N Y N T F G S A E A	g3357909

141	A T S D D Y K N P G Y Y D I Q A K D L G	2921920CD1
129	A T S D D Y K N P G Y Y D I Q A K D L G	g8096221
129	A T S D D Y K N P G Y Y D I Q A K D L G	g3357909

161	I W H V P N K S P M Q H W R N S A L L R	2921920CD1
149	I W H V P N K S P M Q H W R N S S L L R	g8096221
149	I W H V P N K S P L H N W R K S S L L R	g3357909

181	Y R T N T G F L Q R L G H N L F G I Y Q	2921920CD1
169	Y R T D T G F L Q T L G H N L F G I Y Q	g8096221
169	Y R T D T G F L Q T L G H N L F G I Y Q	g3357909

FIGURE 2B

201	K Y P V K Y R S G K C W N D N G P A I P	2921920CD1
189	K Y P V K Y G E G K C W T D N G P V I P	g8096221
189	K Y P V K Y G E G K C W T D N G P A L P	g3357909
221	V V Y D F G D A K K T A S Y Y S P Y G Q	2921920CD1
209	V V Y D F G D A Q K T A S Y Y S P Y G Q	g8096221
209	V V Y D F G D A R K T A S Y Y S P S G Q	g3357909
241	R E F V A G F V Q F R V F N N E R A A N	2921920CD1
229	R E F T A G F V Q F R V F N N E R A A N	g8096221
229	R E F T A G Y V Q F R V F N N E R A A S	g3357909
261	A L C A G I K V T G C N T E H H C I G G	2921920CD1
249	A L C A G M R V T G C N T E H H C I G G	g8096221
249	A L C A G V R V T G C N T E H H C I G G	g3357909
281	G G F F P Q G K P R Q C G D F S A F D W	2921920CD1
269	G G Y F P E A S P Q Q C G D F S G F D W	g8096221
269	G G F F P E G N P V Q C G D F A S F D W	g3357909

FIGURE 2C

301	D G Y G T H V K S S C S R E I T E A A V	2921920CD1
289	S G Y G T H V V G Y S S S R E I T E A A V	g8096221
289	D G Y G T H N G Y S S S R R T E A A V	g3357909
321	L L F Y R	
309	L L F Y R	
309	L L F Y R	

FIGURE 2D